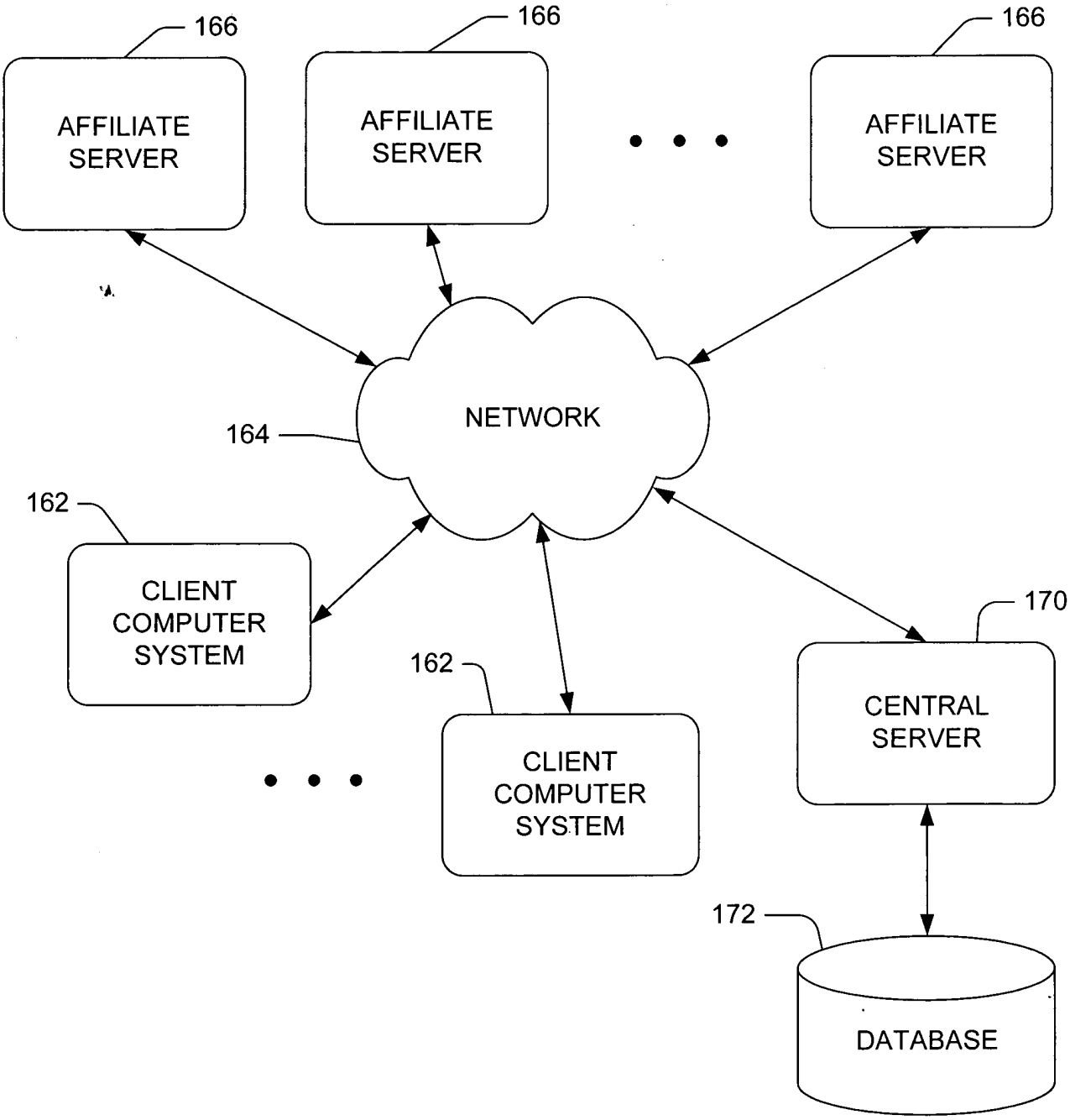
FIG. 1


166
AFFILIATE SERVER
166
AFFILIATE SERVER
166
AFFILIATE SERVER
NETWORK
164
162
CLIENT COMPUTER SYSTEM
162
CLIENT COMPUTER SYSTEM
170
CENTRAL SERVER
172
DATABASE

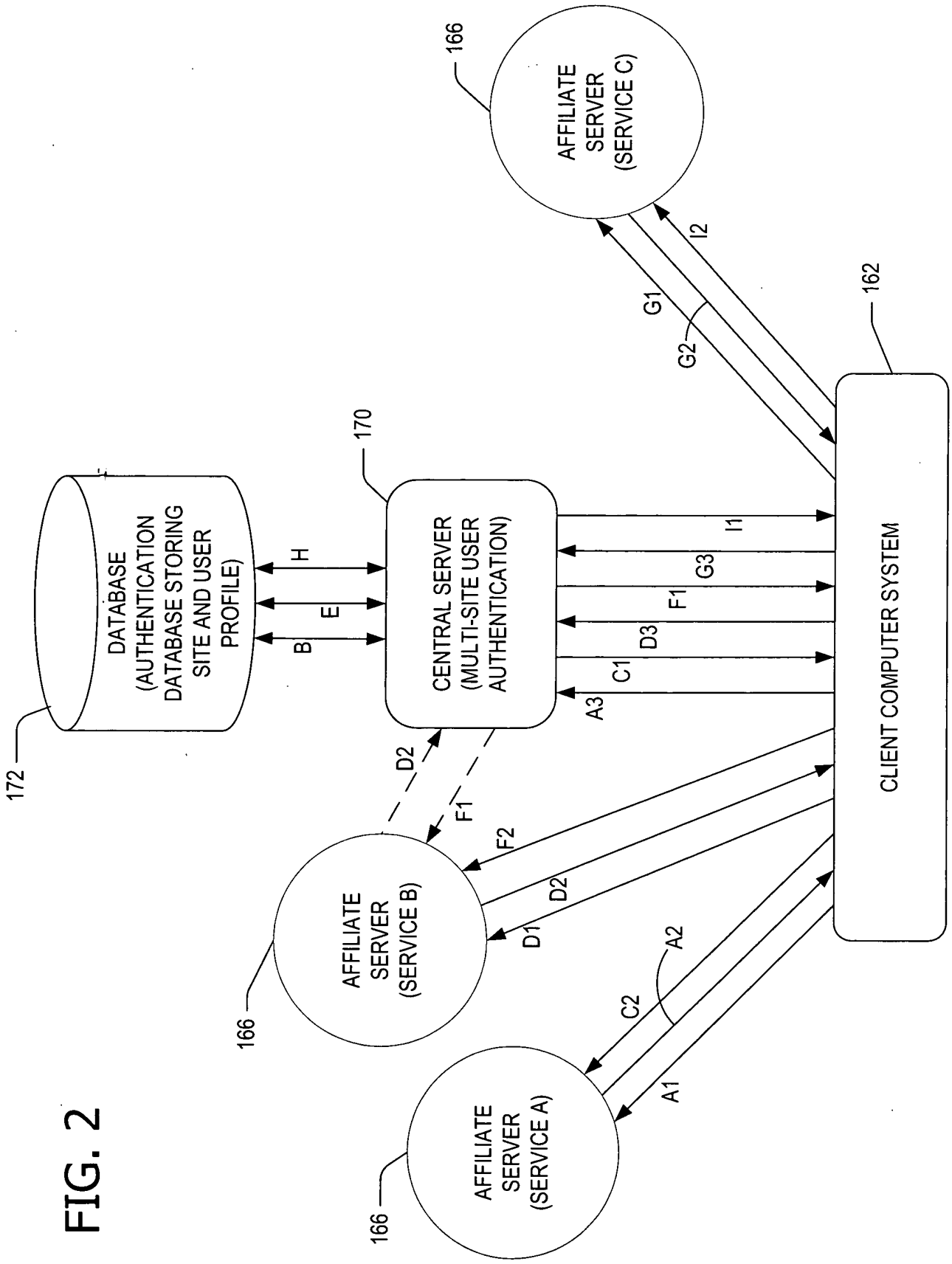

DATABASE (AUTHENTICATION DATABASE STORING SITE AND USER PROFILE)
172
CENTRAL SERVER (MULTI-SITE USER AUTHENTICATION)
170
AFFILIATE SERVER (SERVICE C)
166
AFFILIATE SERVER (SERVICE B)
166
AFFILIATE SERVER (SERVICE A)
166
CLIENT COMPUTER SYSTEM
162
H
E
B
I1
G3
F1
D3
C1
A3
I2
G1
G2
D2
F1
F2
D2
D1
A2
C2
A1

FIG. 2

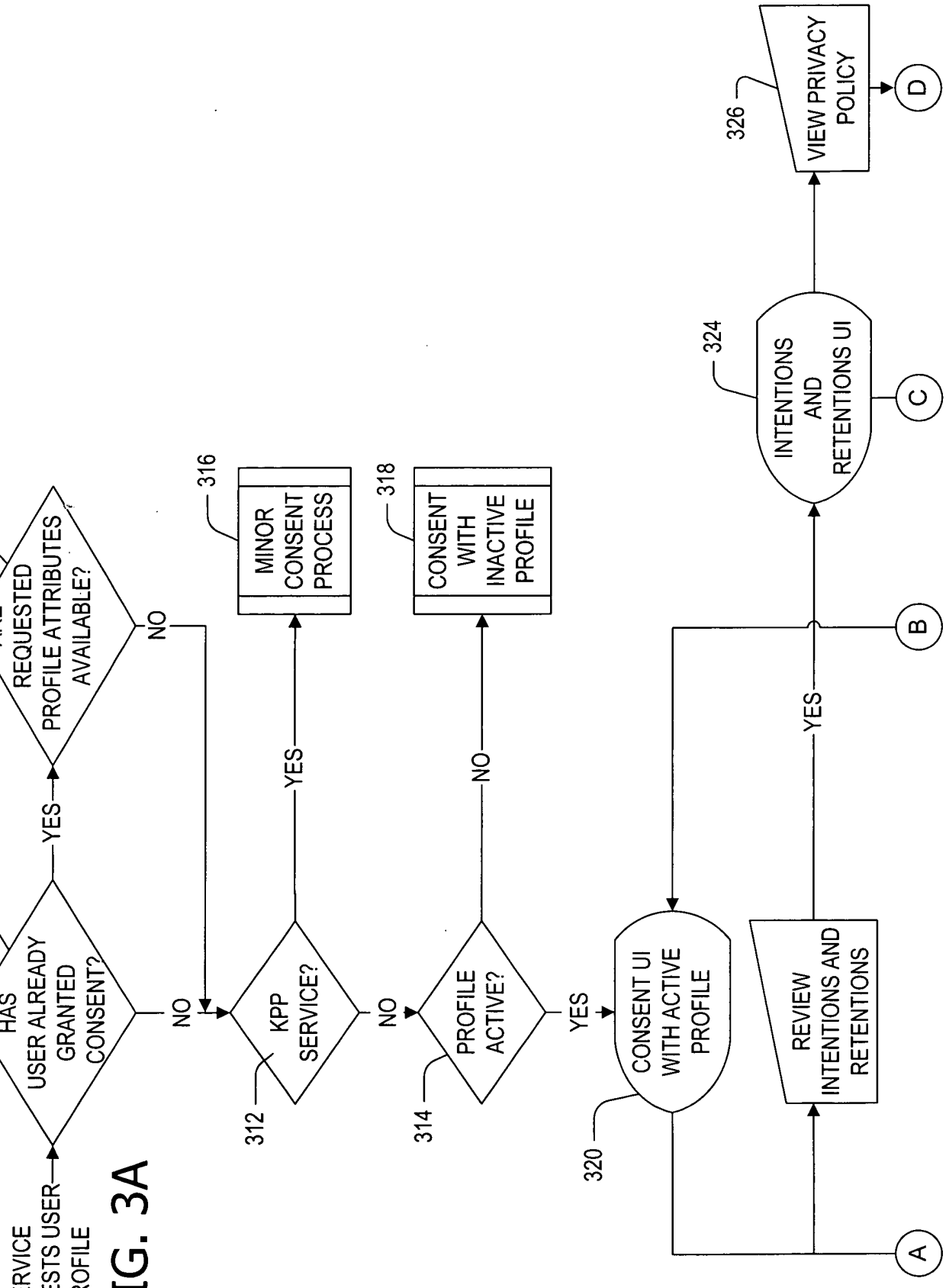

SERVICE REQUESTS USER PROFILE
302
HAS USER ALREADY GRANTED CONSENT?
YES
NO
304
ARE REQUESTED PROFILE ATTRIBUTES AVAILABLE?
YES
NO
312
KPP SERVICE?
YES
316
MINOR CONSENT PROCESS
NO
314
PROFILE ACTIVE?
YES
318
CONSENT WITH INACTIVE PROFILE
NO
320
CONSENT UI WITH ACTIVE PROFILE
REVIEW INTENTIONS AND RETENTIONS
324
INTENTIONS AND RETENTIONS UI
326
VIEW PRIVACY POLICY
A
B
C
D

FIG. 3A

FIG. 3B

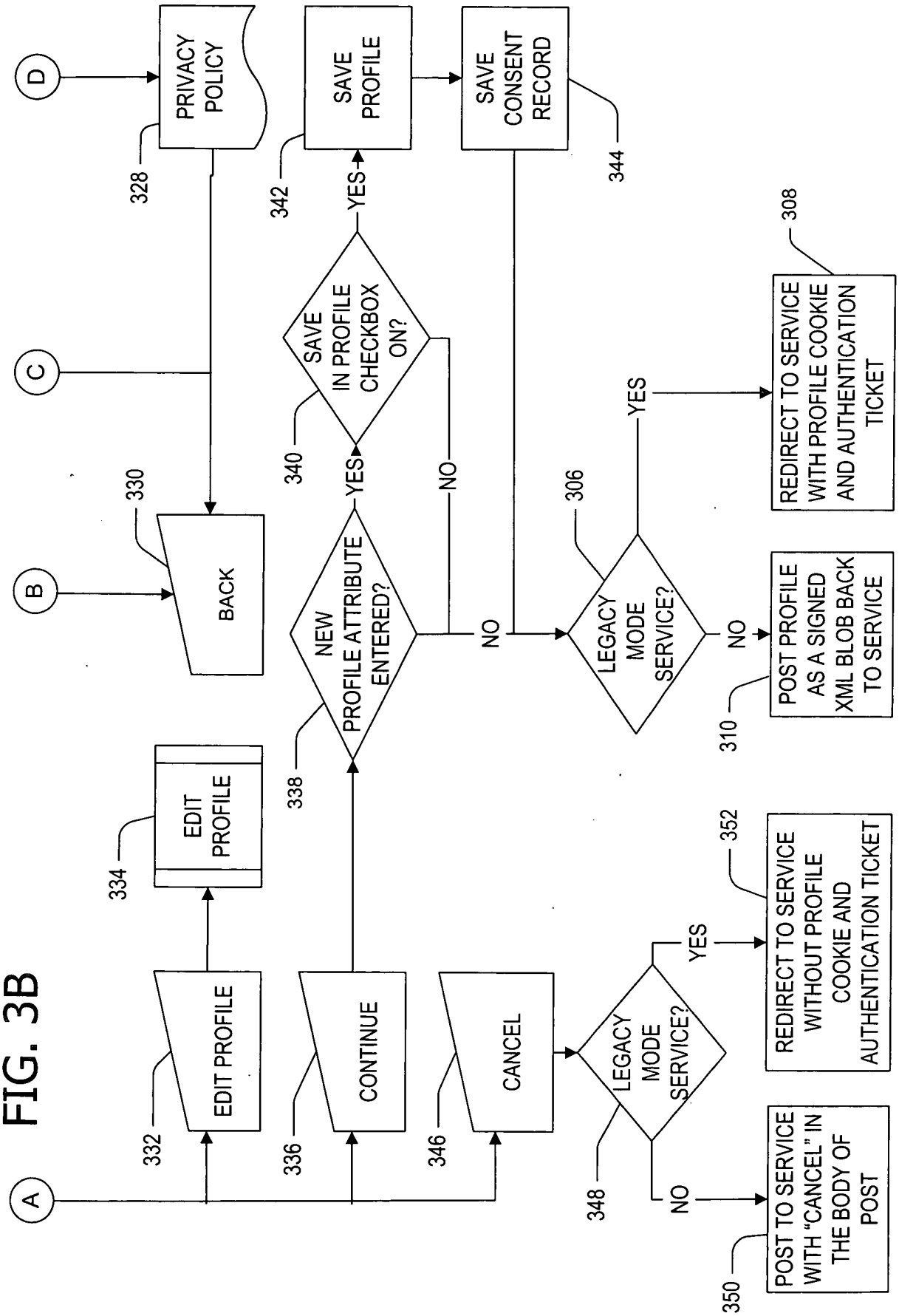

A
B
C
D
PRIVACY POLICY
328
BACK
330
EDIT PROFILE
332
EDIT PROFILE
334
CONTINUE
336
NEW PROFILE ATTRIBUTE ENTERED?
338
YES
NO
SAVE IN PROFILE CHECKBOX ON?
340
YES
NO
SAVE PROFILE
342
SAVE CONSENT RECORD
344
CANCEL
346
LEGACY MODE SERVICE?
348
YES
NO
POST TO SERVICE WITH "CANCEL" IN THE BODY OF POST
350
REDIRECT TO SERVICE WITHOUT PROFILE COOKIE AND AUTHENTICATION TICKET
352
LEGACY MODE SERVICE?
306
YES
NO
REDIRECT TO SERVICE WITH PROFILE COOKIE AND AUTHENTICATION TICKET
308
POST PROFILE AS A SIGNED XML BLOB BACK TO SERVICE
310

FIG. 4

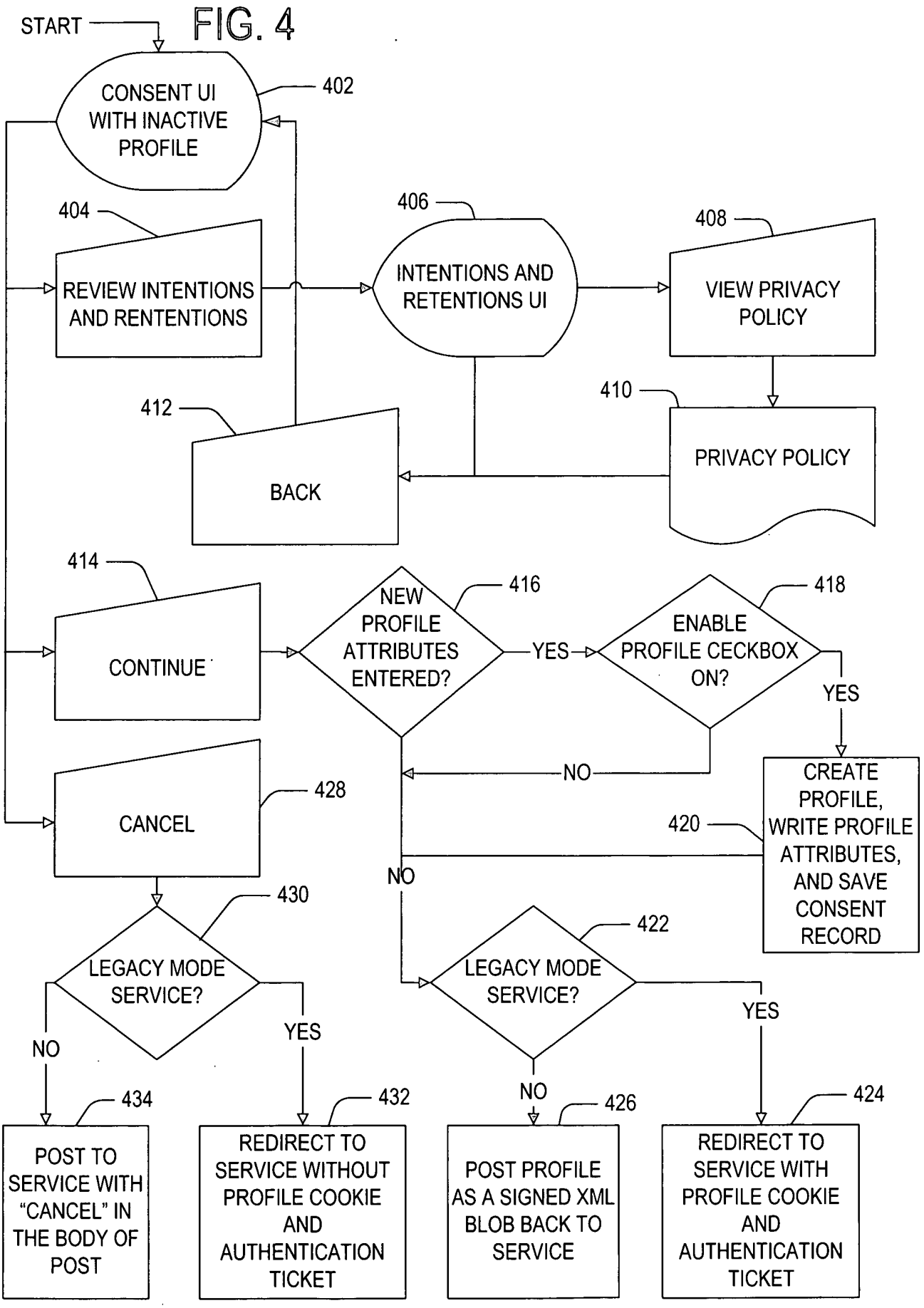

START
CONSENT UI WITH INACTIVE PROFILE
402
404
REVIEW INTENTIONS AND RENTENTIONS
406
INTENTIONS AND RETENTIONS UI
408
VIEW PRIVACY POLICY
410
PRIVACY POLICY
412
BACK
414
CONTINUE
NEW PROFILE ATTRIBUTES ENTERED?
416
YES
ENABLE PROFILE CECKBOX ON?
418
YES
NO
CREATE PROFILE, WRITE PROFILE ATTRIBUTES, AND SAVE CONSENT RECORD
420
CANCEL
428
NO
LEGACY MODE SERVICE?
430
NO
YES
LEGACY MODE SERVICE?
422
YES
NO
POST TO SERVICE WITH "CANCEL" IN THE BODY OF POST
434
REDIRECT TO SERVICE WITHOUT PROFILE COOKIE AND AUTHENTICATION TICKET
432
POST PROFILE AS A SIGNED XML BLOB BACK TO SERVICE
426
REDIRECT TO SERVICE WITH PROFILE COOKIE AND AUTHENTICATION TICKET
424

FIG. 5

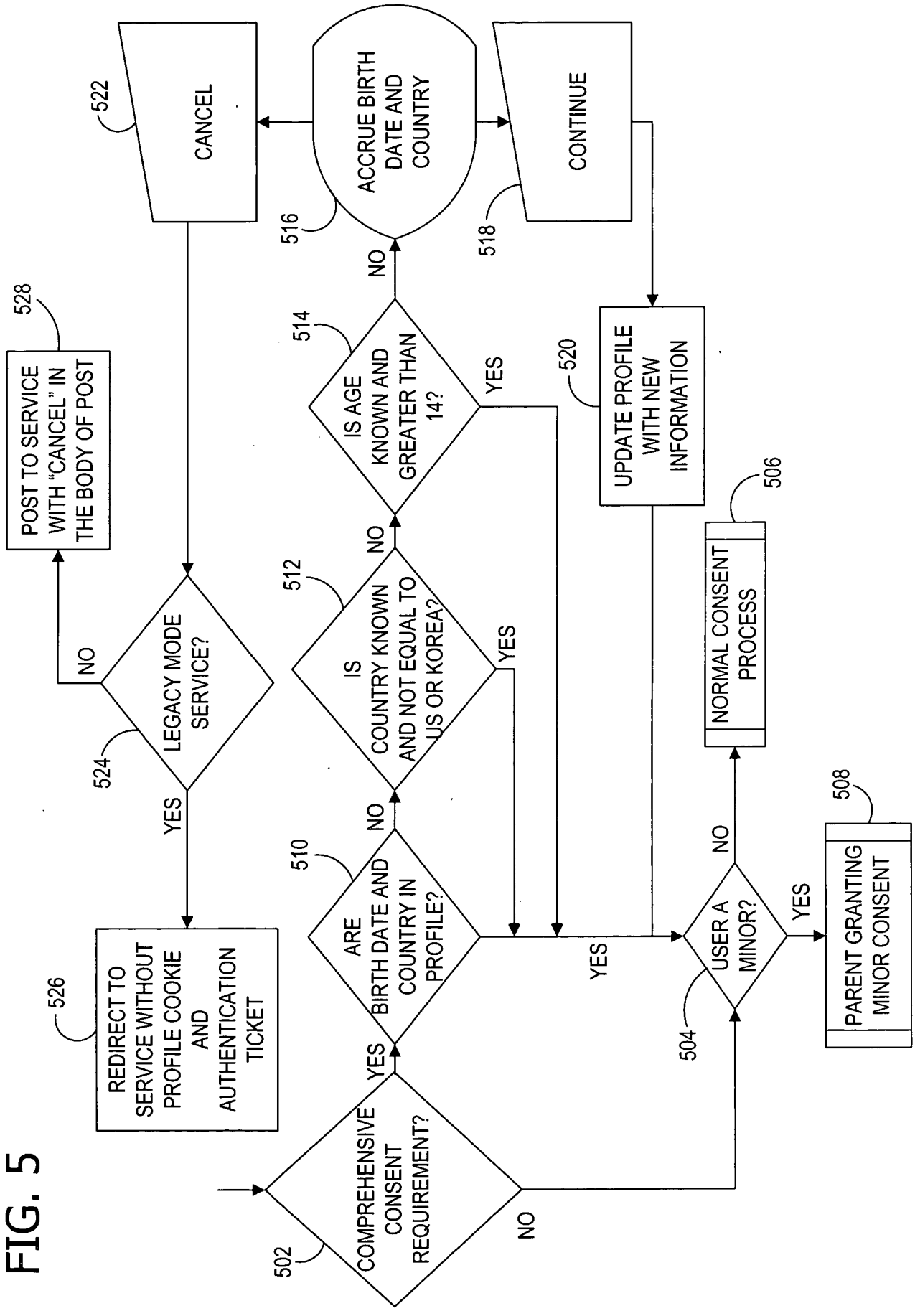

COMPREHENSIVE CONSENT REQUIREMENT?
502
YES
NO
ARE BIRTH DATE AND COUNTRY IN PROFILE?
510
YES
NO
IS COUNTRY KNOWN AND NOT EQUAL TO US OR KOREA?
512
YES
NO
IS AGE KNOWN AND GREATER THAN 14?
514
YES
NO
ACCRUE BIRTH DATE AND COUNTRY
516
CONTINUE
518
CANCEL
522
LEGACY MODE SERVICE?
524
YES
NO
REDIRECT TO SERVICE WITHOUT PROFILE COOKIE AND AUTHENTICATION TICKET
526
POST TO SERVICE WITH "CANCEL" IN THE BODY OF POST
528
UPDATE PROFILE WITH NEW INFORMATION
520
USER A MINOR?
504
YES
NO
PARENT GRANTING MINOR CONSENT
508
NORMAL CONSENT PROCESS
506

FIG. 6

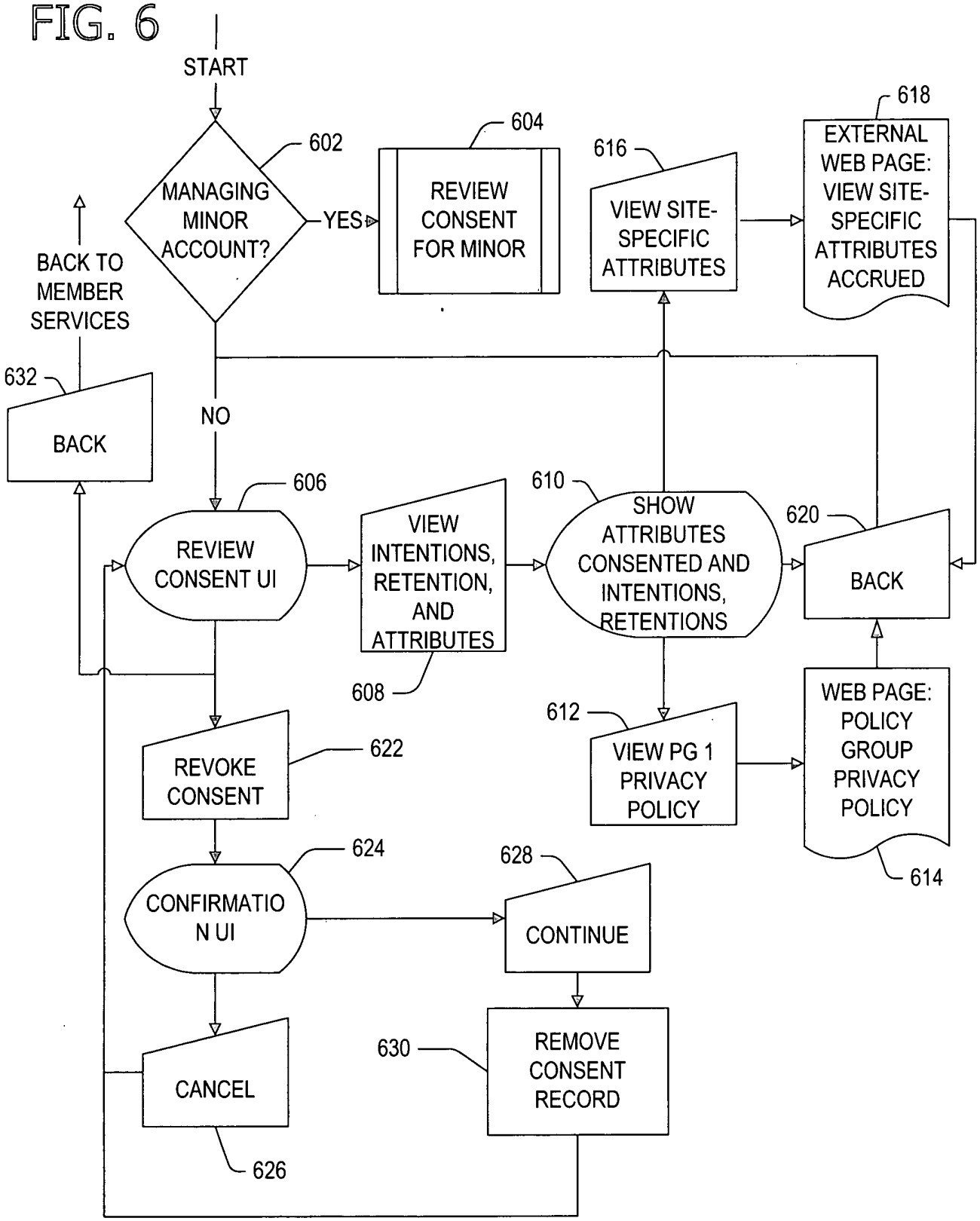

START
MANAGING MINOR ACCOUNT?
602
YES
604
REVIEW CONSENT FOR MINOR
616
VIEW SITE-SPECIFIC ATTRIBUTES
618
EXTERNAL WEB PAGE: VIEW SITE-SPECIFIC ATTRIBUTES ACCRUED
BACK TO MEMBER SERVICES
632
BACK
NO
606
REVIEW CONSENT UI
VIEW INTENTIONS, RETENTION, AND ATTRIBUTES
608
610
SHOW ATTRIBUTES CONSENTED AND INTENTIONS, RETENTIONS
620
BACK
612
VIEW PG 1 PRIVACY POLICY
WEB PAGE: POLICY GROUP PRIVACY POLICY
614
REVOKE CONSENT
622
624
CONFIRMATIO N UI
628
CONTINUE
630
REMOVE CONSENT RECORD
CANCEL
626

FIG. 7A

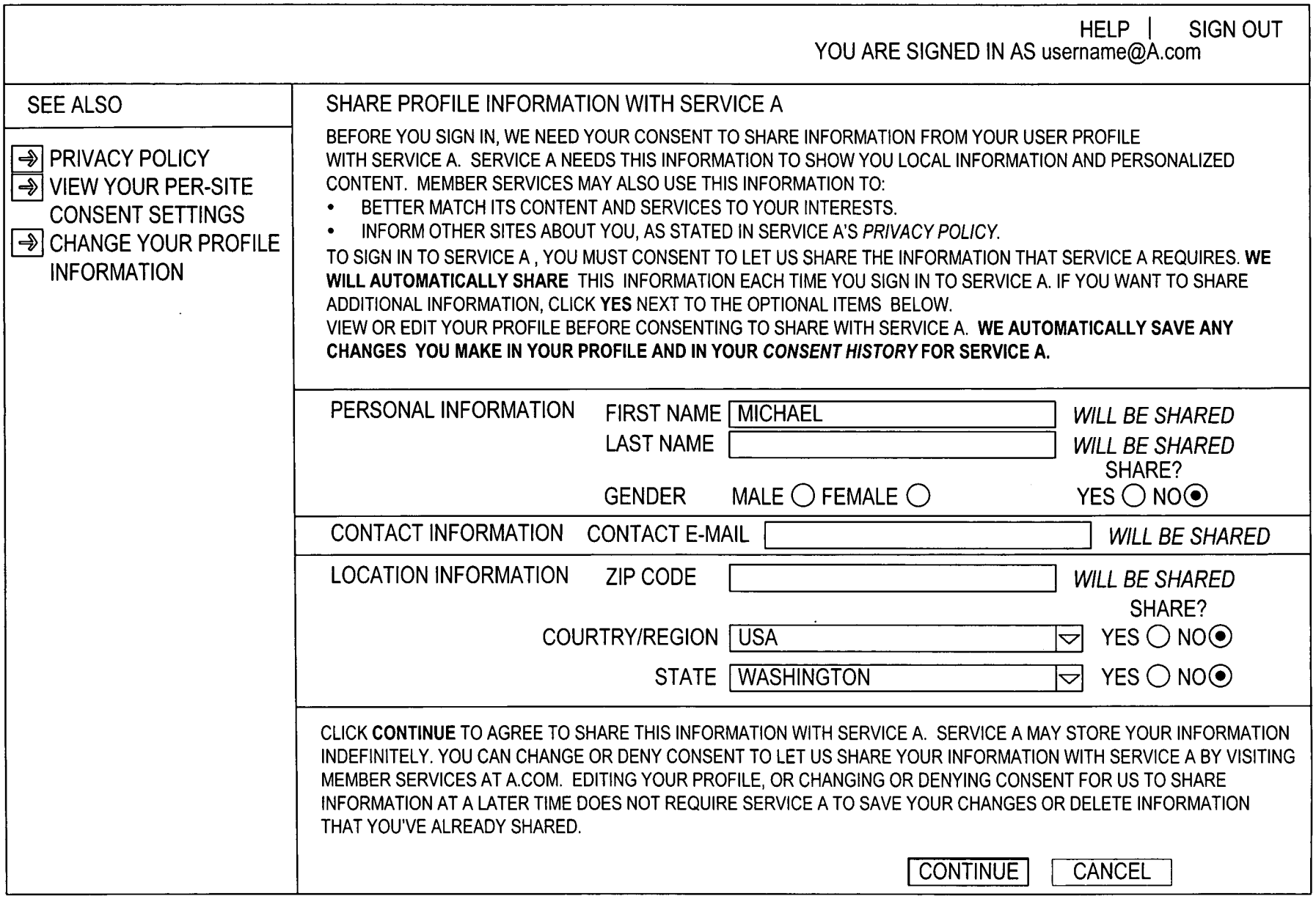

HELP | SIGN OUT
YOU ARE SIGNED IN AS username@A.com
SEE ALSO
PRIVACY POLICY
VIEW YOUR PER-SITE CONSENT SETTINGS
CHANGE YOUR PROFILE INFORMATION
SHARE PROFILE INFORMATION WITH SERVICE A
BEFORE YOU SIGN IN, WE NEED YOUR CONSENT TO SHARE INFORMATION FROM YOUR USER PROFILE WITH SERVICE A. SERVICE A NEEDS THIS INFORMATION TO SHOW YOU LOCAL INFORMATION AND PERSONALIZED CONTENT. MEMBER SERVICES MAY ALSO USE THIS INFORMATION TO:
• BETTER MATCH ITS CONTENT AND SERVICES TO YOUR INTERESTS.
• INFORM OTHER SITES ABOUT YOU, AS STATED IN SERVICE A'S PRIVACY POLICY.
TO SIGN IN TO SERVICE A , YOU MUST CONSENT TO LET US SHARE THE INFORMATION THAT SERVICE A REQUIRES. WE WILL AUTOMATICALLY SHARE THIS INFORMATION EACH TIME YOU SIGN IN TO SERVICE A. IF YOU WANT TO SHARE ADDITIONAL INFORMATION, CLICK YES NEXT TO THE OPTIONAL ITEMS BELOW.
VIEW OR EDIT YOUR PROFILE BEFORE CONSENTING TO SHARE WITH SERVICE A. WE AUTOMATICALLY SAVE ANY CHANGES YOU MAKE IN YOUR PROFILE AND IN YOUR CONSENT HISTORY FOR SERVICE A.
PERSONAL INFORMATION
FIRST NAME
MICHAEL
WILL BE SHARED
LAST NAME
WILL BE SHARED
SHARE?
GENDER
MALE
FEMALE
YES
NO
CONTACT INFORMATION
CONTACT E-MAIL
WILL BE SHARED
LOCATION INFORMATION
ZIP CODE
WILL BE SHARED
SHARE?
COURTRY/REGION
USA
YES
NO
STATE
WASHINGTON
YES
NO
CLICK CONTINUE TO AGREE TO SHARE THIS INFORMATION WITH SERVICE A. SERVICE A MAY STORE YOUR INFORMATION INDEFINITELY. YOU CAN CHANGE OR DENY CONSENT TO LET US SHARE YOUR INFORMATION WITH SERVICE A BY VISITING MEMBER SERVICES AT A.COM. EDITING YOUR PROFILE, OR CHANGING OR DENYING CONSENT FOR US TO SHARE INFORMATION AT A LATER TIME DOES NOT REQUIRE SERVICE A TO SAVE YOUR CHANGES OR DELETE INFORMATION THAT YOU'VE ALREADY SHARED.
CONTINUE
CANCEL

FIG. 7B

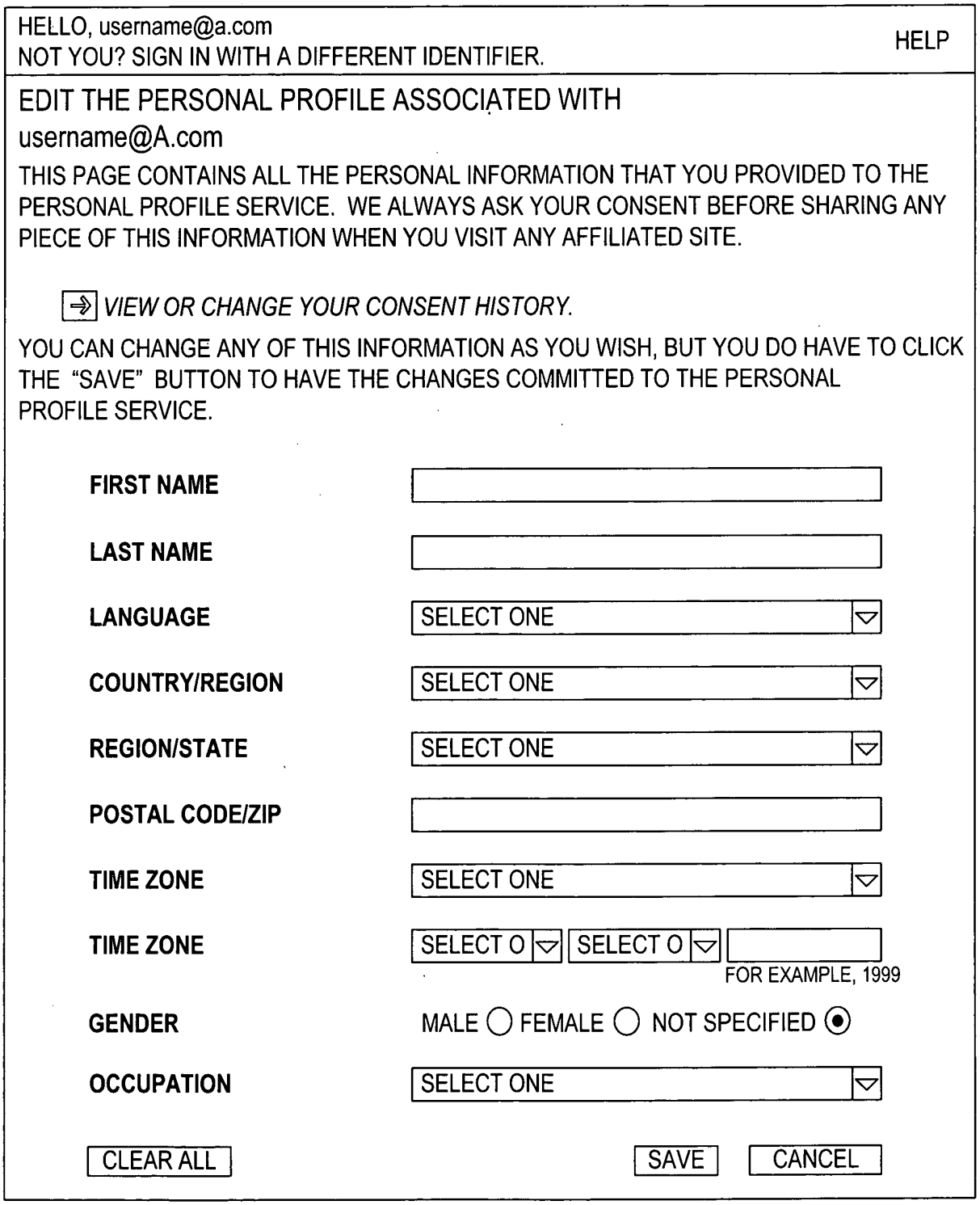

HELLO, username@a.com
NOT YOU? SIGN IN WITH A DIFFERENT IDENTIFIER.
HELP
EDIT THE PERSONAL PROFILE ASSOCIATED WITH
username@A.com
THIS PAGE CONTAINS ALL THE PERSONAL INFORMATION THAT YOU PROVIDED TO THE PERSONAL PROFILE SERVICE. WE ALWAYS ASK YOUR CONSENT BEFORE SHARING ANY PIECE OF THIS INFORMATION WHEN YOU VISIT ANY AFFILIATED SITE.
VIEW OR CHANGE YOUR CONSENT HISTORY.
YOU CAN CHANGE ANY OF THIS INFORMATION AS YOU WISH, BUT YOU DO HAVE TO CLICK THE "SAVE" BUTTON TO HAVE THE CHANGES COMMITTED TO THE PERSONAL PROFILE SERVICE.
FIRST NAME
LAST NAME
LANGUAGE
SELECT ONE
COUNTRY/REGION
SELECT ONE
REGION/STATE
SELECT ONE
POSTAL CODE/ZIP
TIME ZONE
SELECT ONE
TIME ZONE
SELECT O
SELECT O
FOR EXAMPLE, 1999
GENDER
MALE
FEMALE
NOT SPECIFIED
OCCUPATION
SELECT ONE
CLEAR ALL
SAVE
CANCEL

FIG. 7C

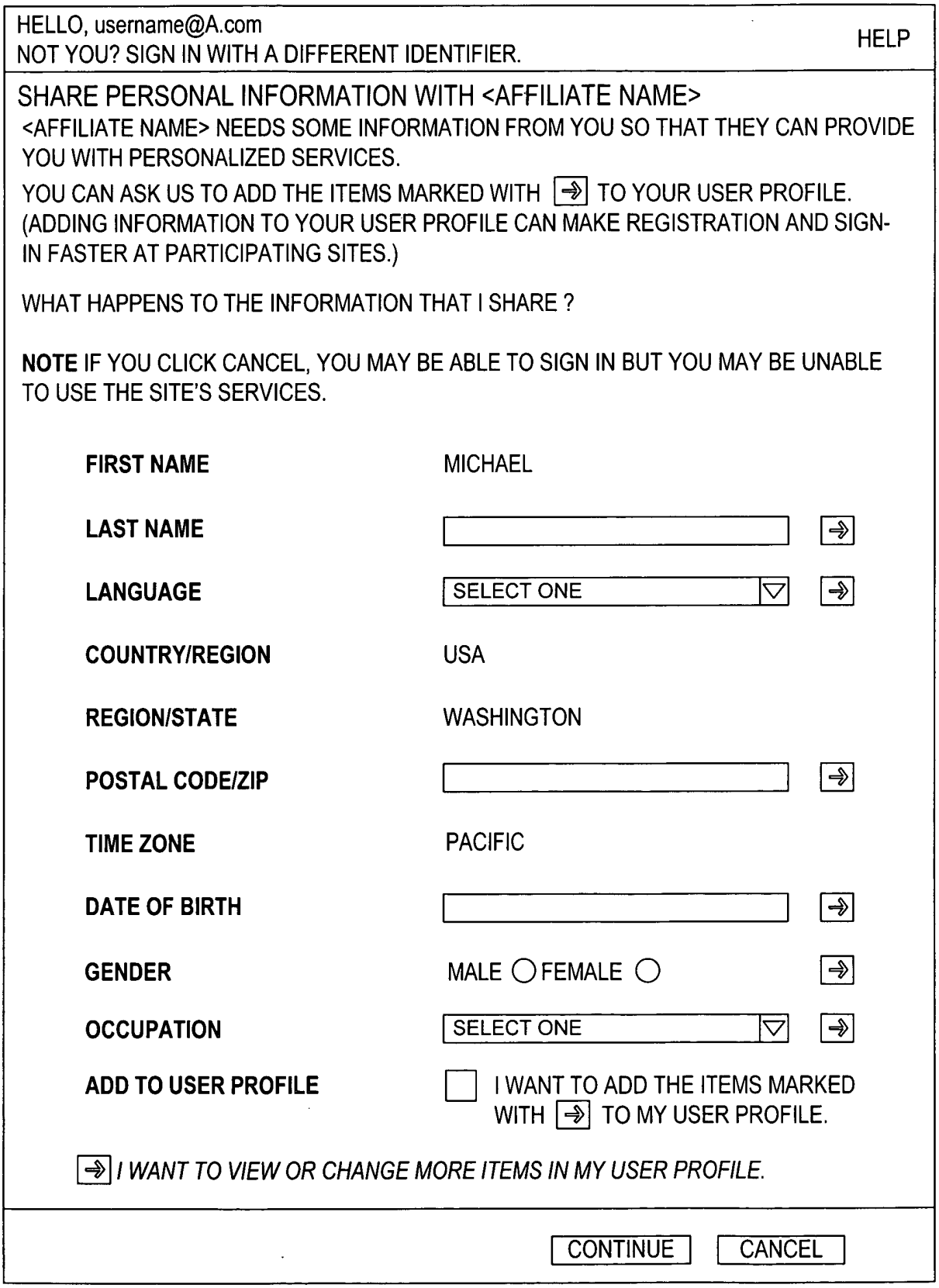

HELLO, username@A.com
NOT YOU? SIGN IN WITH A DIFFERENT IDENTIFIER.
HELP
SHARE PERSONAL INFORMATION WITH <AFFILIATE NAME>
<AFFILIATE NAME> NEEDS SOME INFORMATION FROM YOU SO THAT THEY CAN PROVIDE YOU WITH PERSONALIZED SERVICES.
YOU CAN ASK US TO ADD THE ITEMS MARKED WITH TO YOUR USER PROFILE. (ADDING INFORMATION TO YOUR USER PROFILE CAN MAKE REGISTRATION AND SIGN-IN FASTER AT PARTICIPATING SITES.)
WHAT HAPPENS TO THE INFORMATION THAT I SHARE ?
NOTE IF YOU CLICK CANCEL, YOU MAY BE ABLE TO SIGN IN BUT YOU MAY BE UNABLE TO USE THE SITE'S SERVICES.
FIRST NAME
MICHAEL
LAST NAME
LANGUAGE
SELECT ONE
COUNTRY/REGION
USA
REGION/STATE
WASHINGTON
POSTAL CODE/ZIP
TIME ZONE
PACIFIC
DATE OF BIRTH
GENDER
MALE FEMALE
OCCUPATION
SELECT ONE
ADD TO USER PROFILE
I WANT TO ADD THE ITEMS MARKED WITH TO MY USER PROFILE.
I WANT TO VIEW OR CHANGE MORE ITEMS IN MY USER PROFILE.
CONTINUE
CANCEL

FIG. 7D

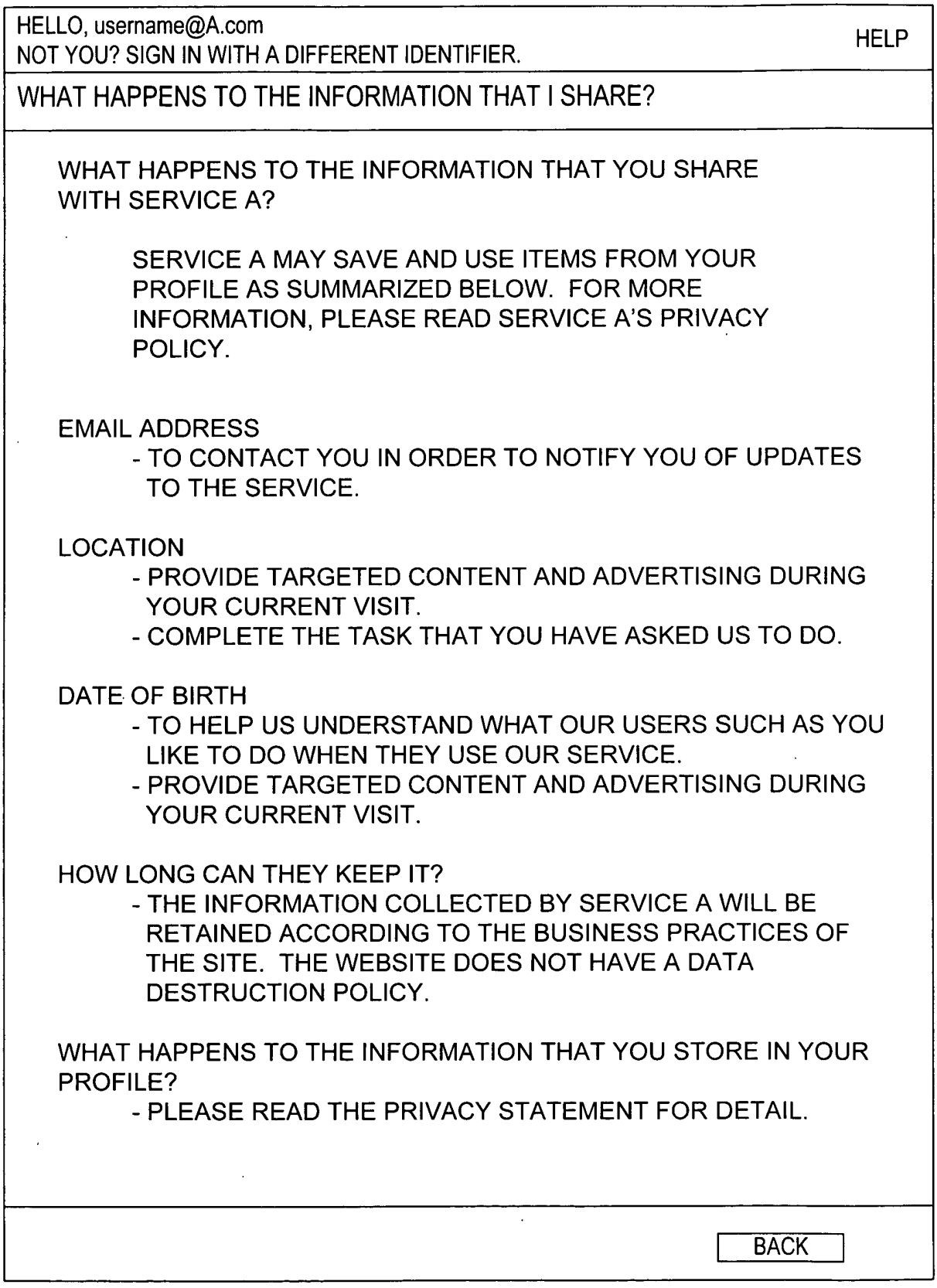

HELLO, username@A.com
NOT YOU? SIGN IN WITH A DIFFERENT IDENTIFIER.
HELP
WHAT HAPPENS TO THE INFORMATION THAT I SHARE?
WHAT HAPPENS TO THE INFORMATION THAT YOU SHARE WITH SERVICE A?
SERVICE A MAY SAVE AND USE ITEMS FROM YOUR PROFILE AS SUMMARIZED BELOW. FOR MORE INFORMATION, PLEASE READ SERVICE A'S PRIVACY POLICY.
EMAIL ADDRESS
- TO CONTACT YOU IN ORDER TO NOTIFY YOU OF UPDATES TO THE SERVICE.
LOCATION
- PROVIDE TARGETED CONTENT AND ADVERTISING DURING YOUR CURRENT VISIT.
- COMPLETE THE TASK THAT YOU HAVE ASKED US TO DO.
DATE OF BIRTH
- TO HELP US UNDERSTAND WHAT OUR USERS SUCH AS YOU LIKE TO DO WHEN THEY USE OUR SERVICE.
- PROVIDE TARGETED CONTENT AND ADVERTISING DURING YOUR CURRENT VISIT.
HOW LONG CAN THEY KEEP IT?
- THE INFORMATION COLLECTED BY SERVICE A WILL BE RETAINED ACCORDING TO THE BUSINESS PRACTICES OF THE SITE. THE WEBSITE DOES NOT HAVE A DATA DESTRUCTION POLICY.
WHAT HAPPENS TO THE INFORMATION THAT YOU STORE IN YOUR PROFILE?
- PLEASE READ THE PRIVACY STATEMENT FOR DETAIL.
BACK

FIG. 7E

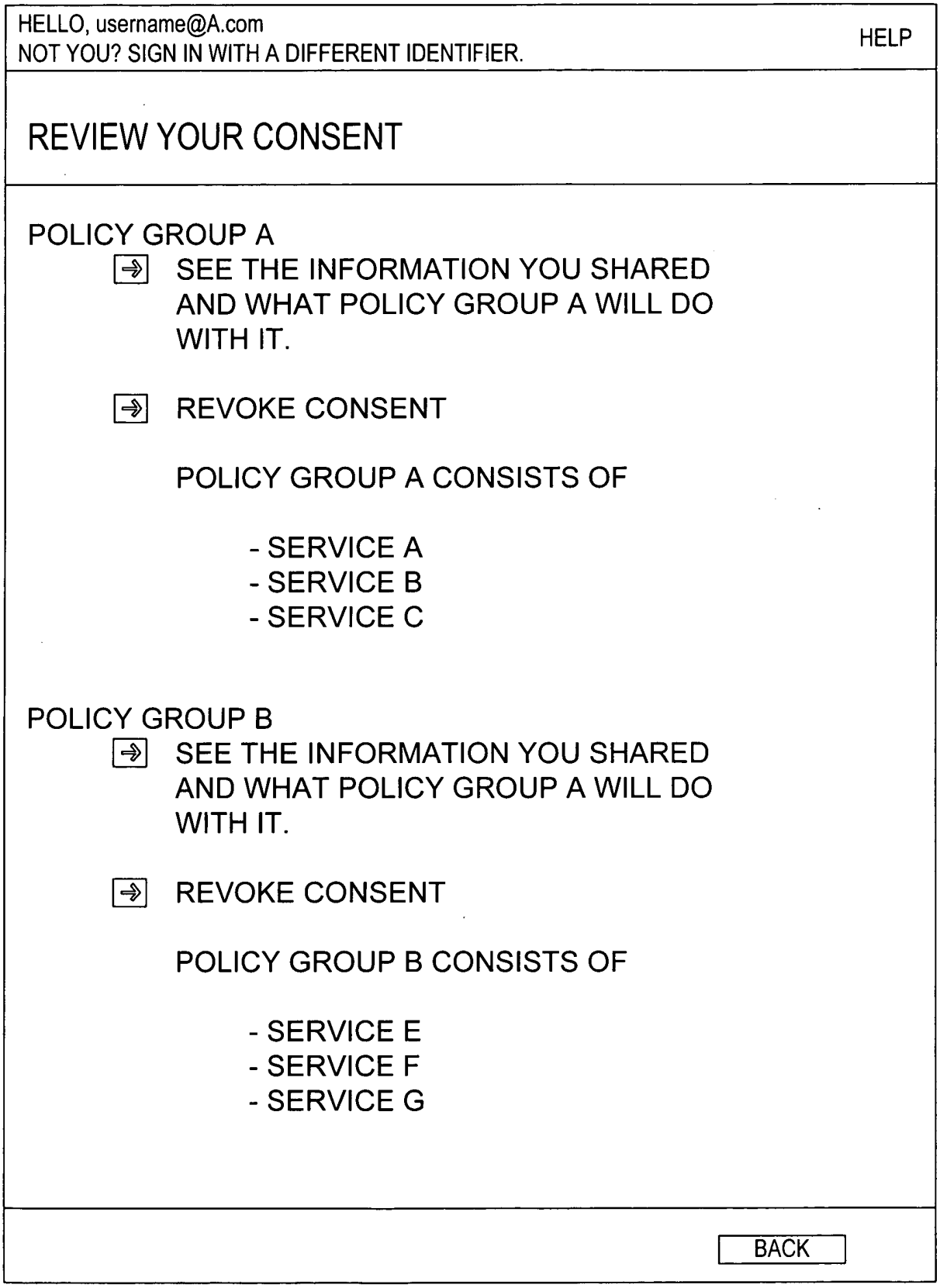

HELLO, username@A.com
NOT YOU? SIGN IN WITH A DIFFERENT IDENTIFIER.
HELP
REVIEW YOUR CONSENT
POLICY GROUP A
SEE THE INFORMATION YOU SHARED AND WHAT POLICY GROUP A WILL DO WITH IT.
REVOKE CONSENT
POLICY GROUP A CONSISTS OF
- SERVICE A
- SERVICE B
- SERVICE C
POLICY GROUP B
SEE THE INFORMATION YOU SHARED AND WHAT POLICY GROUP A WILL DO WITH IT.
REVOKE CONSENT
POLICY GROUP B CONSISTS OF
- SERVICE E
- SERVICE F
- SERVICE G
BACK

FIG. 7F

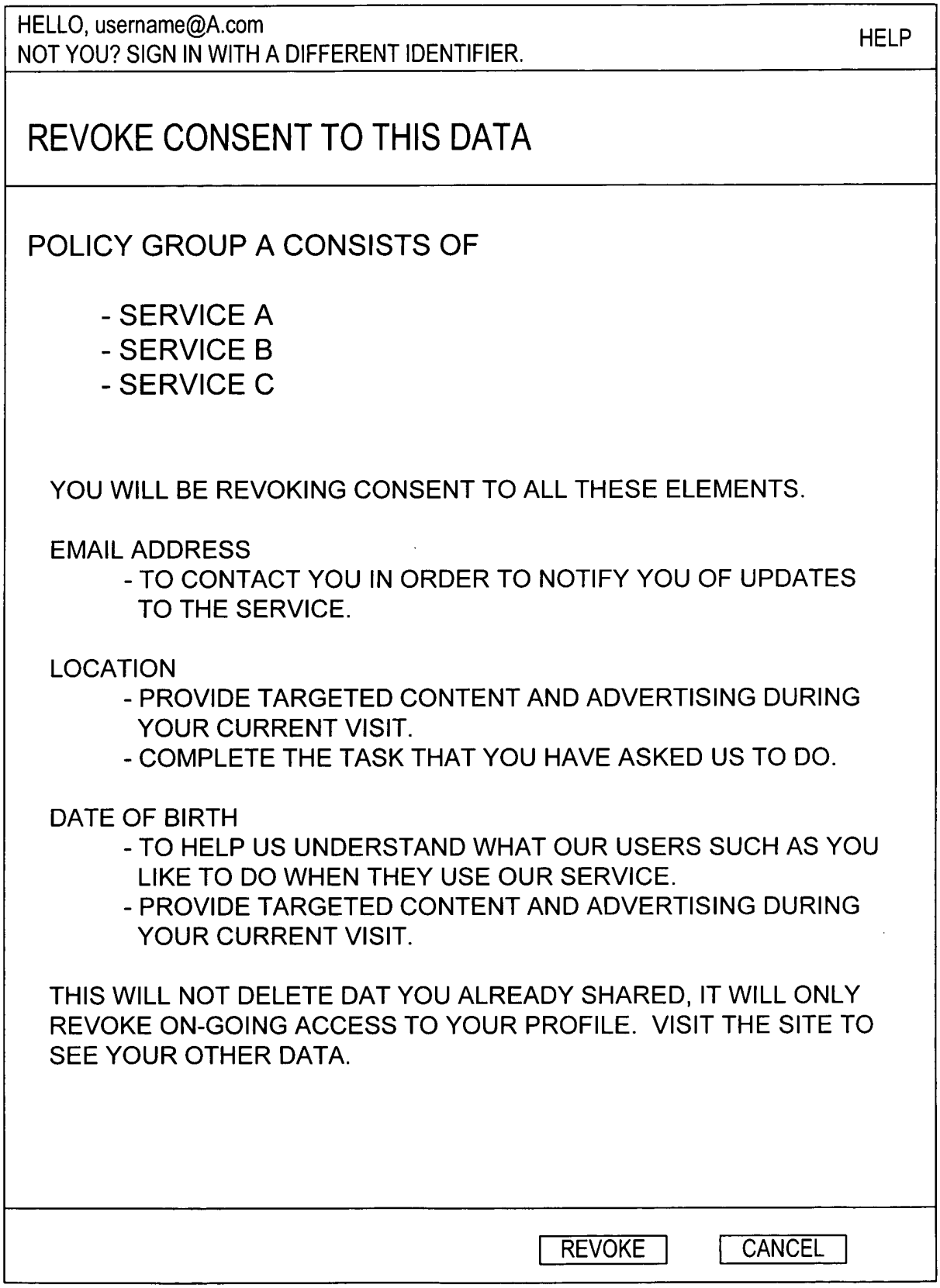

HELLO, username@A.com
NOT YOU? SIGN IN WITH A DIFFERENT IDENTIFIER.
HELP
REVOKE CONSENT TO THIS DATA
POLICY GROUP A CONSISTS OF
- SERVICE A
- SERVICE B
- SERVICE C
YOU WILL BE REVOKING CONSENT TO ALL THESE ELEMENTS.
EMAIL ADDRESS
- TO CONTACT YOU IN ORDER TO NOTIFY YOU OF UPDATES TO THE SERVICE.
LOCATION
- PROVIDE TARGETED CONTENT AND ADVERTISING DURING YOUR CURRENT VISIT.
- COMPLETE THE TASK THAT YOU HAVE ASKED US TO DO.
DATE OF BIRTH
- TO HELP US UNDERSTAND WHAT OUR USERS SUCH AS YOU LIKE TO DO WHEN THEY USE OUR SERVICE.
- PROVIDE TARGETED CONTENT AND ADVERTISING DURING YOUR CURRENT VISIT.
THIS WILL NOT DELETE DAT YOU ALREADY SHARED, IT WILL ONLY REVOKE ON-GOING ACCESS TO YOUR PROFILE. VISIT THE SITE TO SEE YOUR OTHER DATA.
REVOKE
CANCEL

FIG. 7G

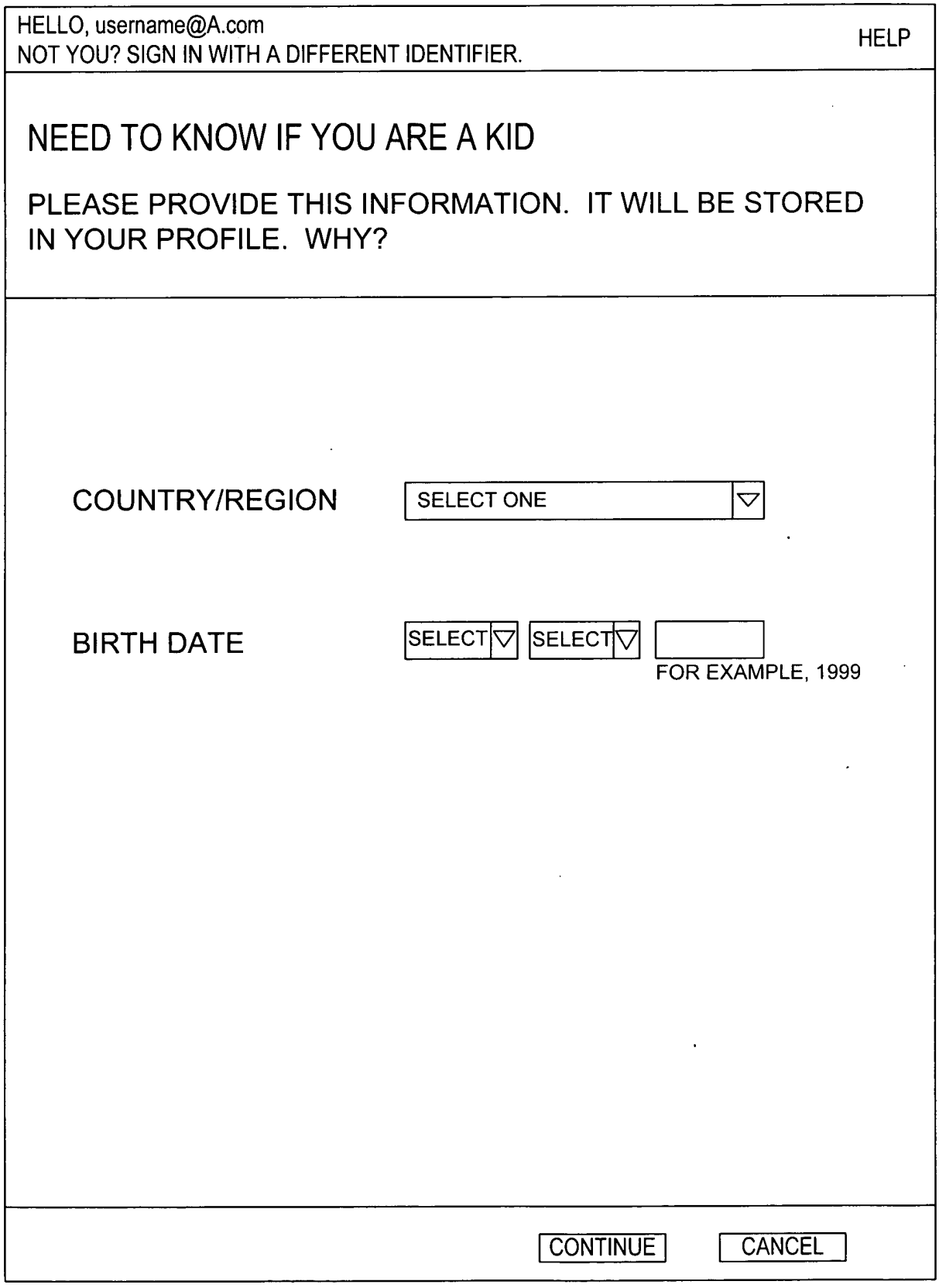

HELLO, username@A.com
NOT YOU? SIGN IN WITH A DIFFERENT IDENTIFIER.
HELP
NEED TO KNOW IF YOU ARE A KID
PLEASE PROVIDE THIS INFORMATION. IT WILL BE STORED IN YOUR PROFILE. WHY?
COUNTRY/REGION
SELECT ONE
BIRTH DATE
SELECT
SELECT
FOR EXAMPLE, 1999
CONTINUE
CANCEL

FIG. 8

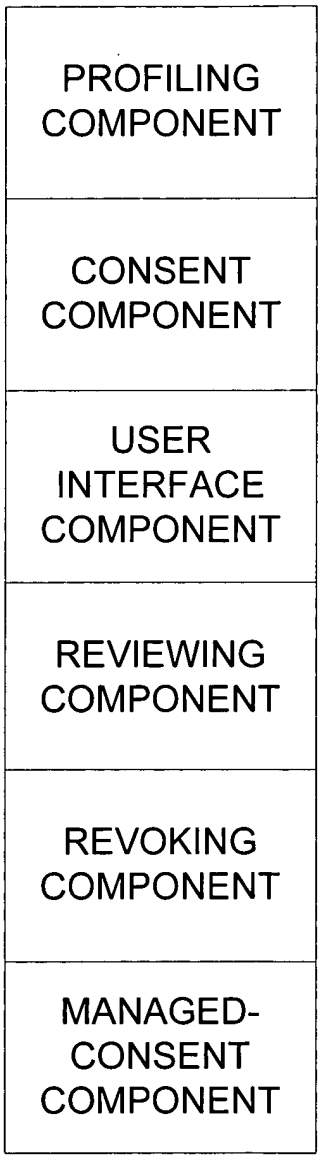
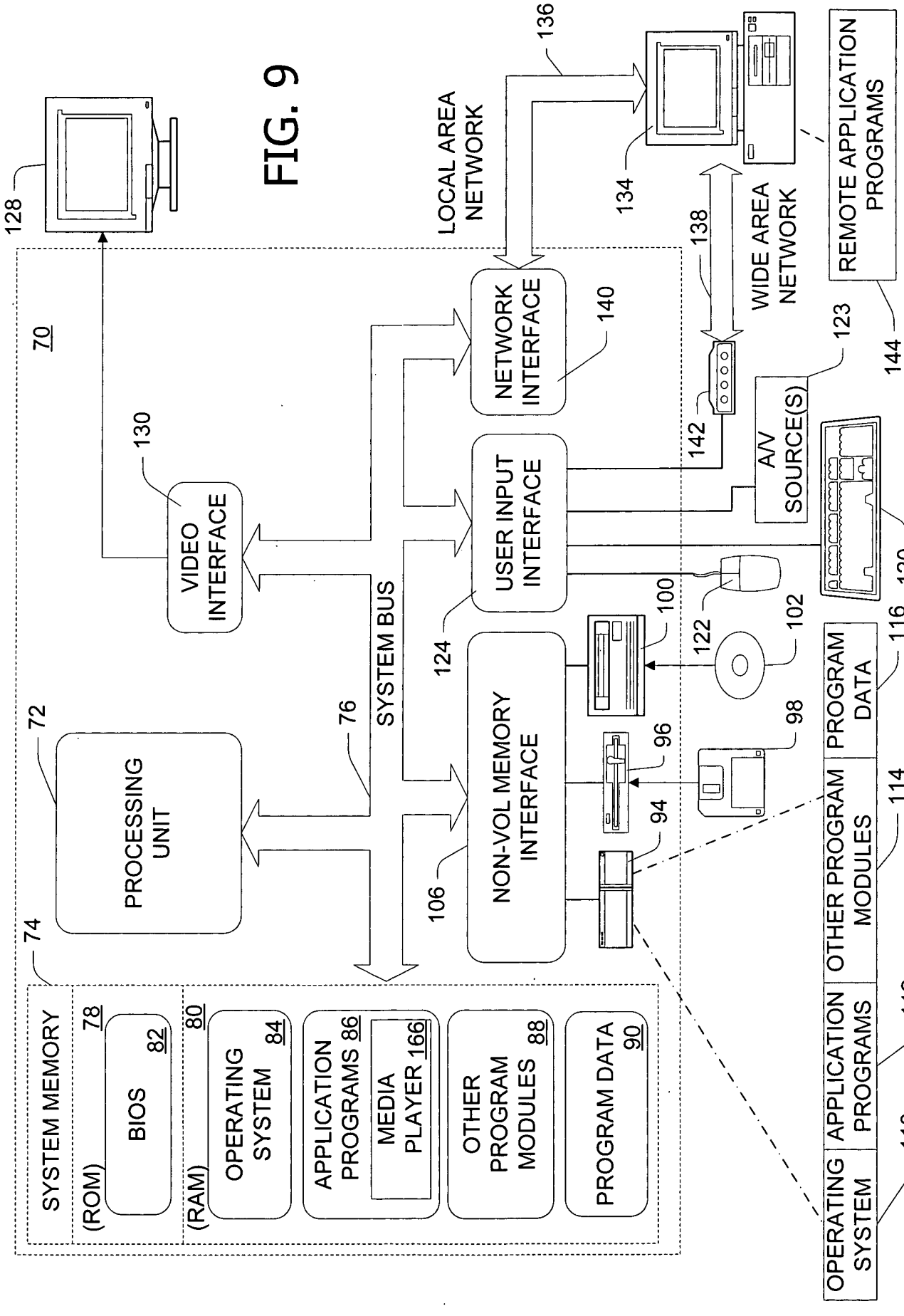

PROFILING COMPONENT
CONSENT COMPONENT
USER INTERFACE COMPONENT
REVIEWING COMPONENT
REVOKING COMPONENT
MANAGED-CONSENT COMPONENT

FIG. 9


70
128
LOCAL AREA NETWORK
136
134
138
WIDE AREA NETWORK
REMOTE APPLICATION PROGRAMS
144
NETWORK INTERFACE
140
123
A/V SOURCE(S)
142
130
VIDEO INTERFACE
USER INPUT INTERFACE
120
122
102
100
124
72
PROCESSING UNIT
76
SYSTEM BUS
NON-VOL MEMORY INTERFACE
106
96
98
94
74
SYSTEM MEMORY
(ROM)
78
BIOS
82
(RAM)
80
OPERATING SYSTEM
84
APPLICATION PROGRAMS
86
MEDIA PLAYER
166
OTHER PROGRAM MODULES
88
PROGRAM DATA
90
OPERATING SYSTEM
110
APPLICATION PROGRAMS
112
OTHER PROGRAM MODULES
114
PROGRAM DATA
116